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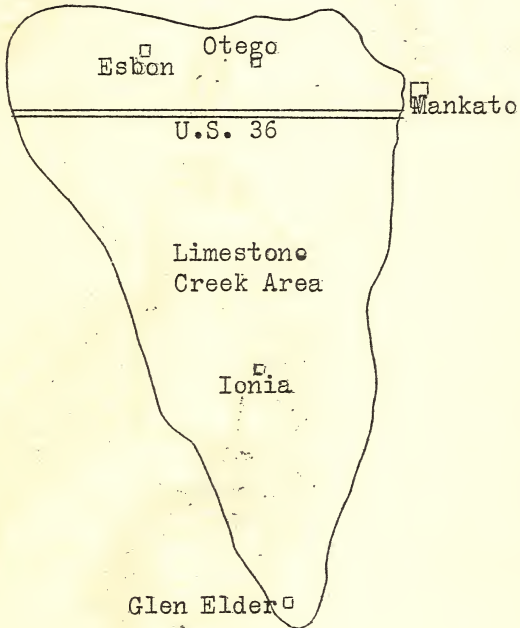
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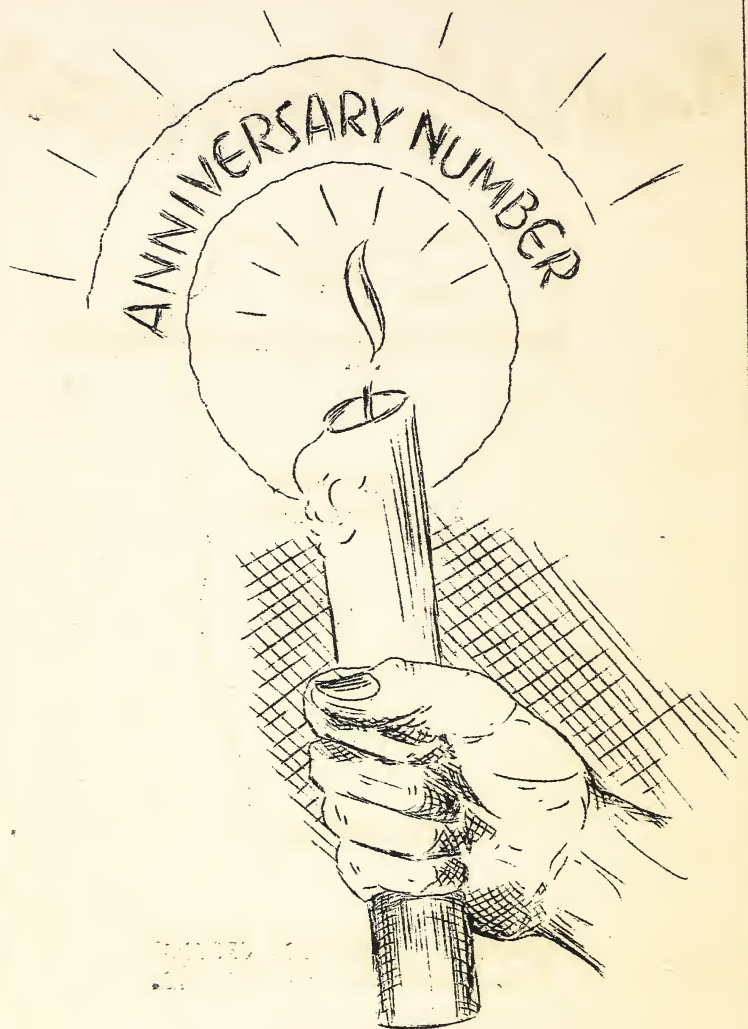
KANSAS KONTOURS



KANSAS SOIL EROSION SERVICE
U.S. DEPARTMENT OF THE INT.

DECEMBER 1934

Mankato, Kansas



pink

PROGRESS OF SOIL EROSION PROJECT

The Limestone Creek Soil Erosion Project located in Smith, Jewell, and Mitchell Counties, Kansas had been in progress one year December 1. It, therefore, seems appropriate that a brief report of progress be made at this time.

This Project was started as a demonstration area and is being conducted as such, a co-operative project between the Federal Government and the farmers in this area. According to the co-operative arrangements, the farmer puts into operation the five-year cropping plan and follows the plan of farm management agreed upon by himself and the Soil Erosion Service. He also agrees to maintain in good order any structures established on the farm.

Weather conditions have been unfavorable for planting many of the erosion control crops such as alfalfa, sweet clover, grass and trees. This has been delayed until 1935. Therefore, much of the time has been put in on erosion control structures such as terraces, outlet channels, and dams for gully control. Contour farming, including the planting of row crops, seeding of small grain and alfalfa and contour blank listing, is becoming a general practice in this Area. This, along with other practices being used, will conserve moisture and permit the most efficient use of all the rainfall.

The Soil Erosion Service desires at this time to thank all of our co-operating farmers for the support they are giving the program. We have every reason to believe that they will continue to carry out the plan that is being worked out for effective water conservation and erosion control on each farm. We can now begin the second year of this work with a better understanding of the methods that can be most practically applied on the farms of this Area.

The co-operators on this Project are not only doing a work that should prove of immense value

to themselves, but they are enlisted in a very important peace time project that is being carried on by the Government in an effort to protect the rolling soils of this country from ruin. It is hoped that the most valuable parts of this program may eventually be carried to all parts of the state or nation where they can be applied to advantage.

SUMMARY OF SOIL EROSION WORK

Number of farmers co-operating -- 356.
Number of acres under co-operative agreement -- 78,060.
Number of acres to be seeded to alfalfa -- 3,310.
Number of acres to be seeded to sweet clover -- 3,961.
Number of acres taken out of cultivation and to be seeded to grass -- 463.
Trees to be planted for erosion control, spring 1935 -- 250,000.
Row crops planted on contour, 1934 - 71 farms -- 3,500 acres.
Small grain planted on contour -- 3,000 acres.
Miles of terraces constructed -- 803.
Acres of land terraced -- 15,348.
Miles of outlet channel built -- 45.
Wire checks in outlet channels -- 3,838.
Dams built in terrace lines -- 9,636.
Miles of interception ditches -- 12.61.
Brush dams built -- 1,454.
Rock dams built -- 118.
Ponds constructed -- 12.
Surveyed for contour field divisions -- 1,022 acres.
Detailed soil, slope, and erosion surveys -- 64,920 acres.
Reconnaissance erosion survey of State of Kansas -- 82,158 sq. miles (Part of National Survey).
Ground water studies - wells being measured -- 30.
Wells drilled for ground water studies around ponds -- 17.
Stream gauging stations established -- 3.

Rain gauges in use for measuring rainfall -- 26.
Visitors at special field days representing 13
states and 50 Kansas Counties -- 2,006.

SEED SUGGESTIONS FOR 1935

There will be a serious scarcity of adapted seed of high quality available for planting this spring. It is always advisable to use the best adapted varieties if they can be obtained. Seed of less adapted varieties may be used, especially if they can be obtained locally.

Below are varieties listed in the order of their adaptability:

<u>Crop</u>	<u>Adapted Variety</u>	<u>Good Varieties</u>
Corn	Pride of Saline Hay's Golden	Reed's Yellow Dent Freed's White
Grain Sorghum	Western Blackhull Standard Blackhull Pink Wheatland Milo Darso	Dawn Cheyenne Beaver Dwarf Yellow Milo
Forage Sorghums	Atlas Sorgo Kansas Orange	Standard Sumac Early Sumac
Barley	Common 6 Row	Club Marout Atlas Vaughn
Oats	Kanoto	Texas Red

The Farm Bureau Office has a list of available seed in the county.

USE OF ROAD RIPPER

A Road Ripper has been added to the construction equipment.

The Road Ripper is a tool designed for the purpose of tearing loose the compacted soil of a gravel or oiled road. The use of the Road Ripper on this Project is an innovation in terrace construction and its application to terrace construction was started in this Area.

The Ripper is pulled by a 50 Diesel Tractor. The maximum effective cutting depth of this tool is 20 inches.

The Road Ripper is used to loosen the earth in the outlet channels and interception ditches before blading to grade. The Ripper is a valuable tool in building terraces. It is possible through the use of the Ripper to straighten terrace lines and ease curves around the points of the hills and across irregularities of the contours of the field. Terrace lines constructed in this manner aid the farmer materially in his contour plowing and cropping of the land.

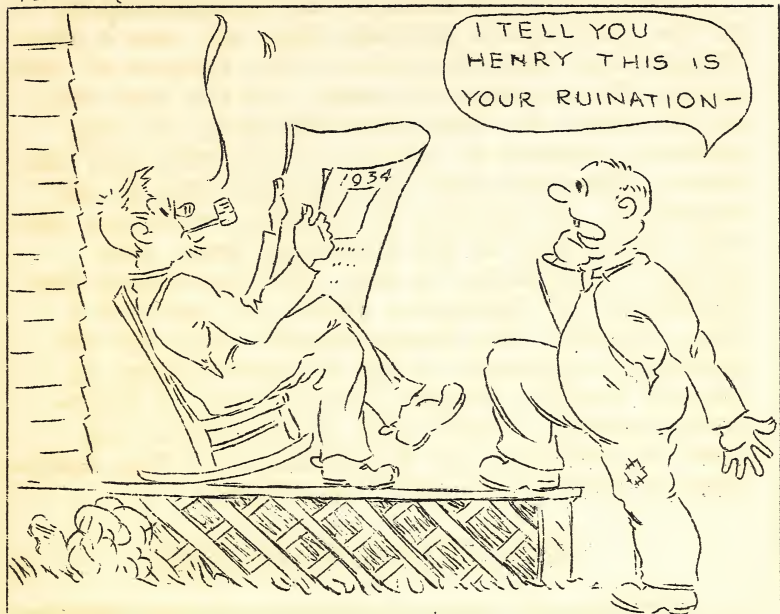
The use of the Ripper in tearing loose the soil in the terrace channels, preparatory to making fills, also is of distinct advantage in that there is no subsoil exposed between terrace lines after fills are completed.

WASHINGTON COUNTY FARMERS VISIT KANSAS SOIL EROSION SERVICE

Eighty-one Washington County farmers headed by Leonard F. Neff, County Agent, and J. S. Wood, Farm Bureau President, visited the Area on Friday, November 23.

The day's activities for the visitors consisted of a program in the Municipal Auditorium at Mankato in the morning and a tour of the Area in the afternoon. At the Auditorium, John S. Glass, Chief Agricultural Engineer, explained the plan of soil erosion control that is being followed in this Area. Various members of the staff under the direction of Ralph P. Ramsey accompanied the men on the tour of the Area and explained different phases of the work.

1934 (HENRY HAS JUST TERRACED HIS FARM)



• 1939 •

HENRY

NEIGHBOR



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being done.

This group of farmers were representative of the far-sighted attitude that has been a distinguishing characteristic of the farmers of that county for a number of years. At the last stop on the tour, Mr. Wood asked the group if they cared to express an opinion of the work they had seen. These men went even further than he had expected. In addition to heartily endorsing the work being done on the Limestone Area, they passed a resolution to meet with the County Commissioners of Washington County to work out a plan, whereby, the Commissioners would buy the necessary equipment to use in establishing an erosion control program on the farms of interested farmers. Their plan is to prorate the cost of operation and depreciation of this equipment to those farms that are worked.

SURVEY OF FARMS CO-OPERATING

Erving and Center Townships and the area in Smith County lead the other Townships in the Limestone Valley in farms signed with 75, 68, and 80 percent respectively. Odessa is next with almost 66% of the farms signed. The Odessa record is especially significant in that there are 73 farms in the Township located in the Limestone Valley and 48 are signed. The following data shows the percent of co-operation by Townships:

<u>Township</u>	<u>Total No. of Farms</u>	<u>No. of Farms Co-operating</u>	<u>Percent Co-operating</u>
Oak (Smith Co.)	10	8	80
Erving	12	9	75
Center	19	13	68
Odessa	73	48	66
Brown's Creek	10	6	60
Ionia	109	63	58
Limestone	111	64	58
Esbon	103	58	56

Athens	124	68	55
Glen Elder	44	14	32
Calvin	13	2	15

Total Farms co-operating -- 356

Total Farms not co-operating -- 273

Total Farms in Area -- 629

Percentage co-operating -- 56

An effort has been made to give every farmer in the Area a chance to sign a co-operative agreement with the Soil Erosion Service. If any farm has been missed, it has been an oversight.

The Kansas Soil Erosion Service is always glad to explain fully the plan of erosion control that is being employed in the Limestone Valley. Farmers and staff members who are familiar with the whole set-up of erosion control find it very hard to understand how any farmer who has the opportunity of having erosion control methods established on his farm can allow it to remain in the group of farms that are being stripped of part of their productive surface soil each year. The Erosion Service is in the position of inviting voluntary co-operation. No effort has been or will be made to induce anyone to sign a co-operative agreement until he thoroughly understands the plan and agrees to its value. The staff of the Kansas Soil Erosion Service is interested in setting up the best possible demonstration of methods of controlling erosion. They have tried to make sure that every farmer in the Area has had an opportunity to place his farm in the demonstration. It is not intended that a single farmer in the Area can honestly say to-morrow or five years from now that he did not have an opportunity to sign a co-operative agreement with the Soil Erosion Service. The following list of names includes both landowners and tenants co-operating on this Project:

Esbon Township

Ball, A. J.
Black, L. F.
Buzard, W. J.
Barnett, M. T.
Bowman, C. H.
Bowman, Dr. J. C.
Brennan, John
Calloway, E. A.
Calloway, J. E.
Cavanaugh, John
Cavanaugh, Tom & Ella
Cline, Mrs. J. S.
Conrad, T. W.
Conrad, J. A.
Conroy, Thos. E.
Duncan, Mrs. Della
Eberhart, Earl
Fisher, C. D.
Forster, Paul
Haegert, A. O.
Haegert, O. M.
Hale, B. C.
Heiserman, F. J.
Heller Bros.
Howe, Mark
Iverson, L. N.
Jelinick, Albert
Johanek, George
Johanek, John
Kindler, Frank
Kindler, Glen
Lewis, Will
Lewis, R. B.
Lorence, A. V.
Lorence, R. A.
McCammon, J. E.
McCarty, Guy
McCarty, M. H.
McGinnis, Charles
Maag, George

Mendenhall, Geo.
Mitchler, C.
Morrow, A. W.
Nelson, A. F.
Noon, Ray
Norton, Perry
Peroutek, Emil
Peroutek, Frank
Ricord, Mrs. Mary E.
Regan, Mrs. Anne
Shackelton, Wm.
Shook, Clarence
Shook, G. M.
Shuck, Dana
Sink, Bert
Sink, John
Sink, Emit
Sink, Wilber
Sprague, Roy
Stoutimore, Ethid
Thomas, J. P.
Vance, F. A.
Wallace, W. C.
Warren Mortgage Co.
Young, D. C.

Limestone Township

Allen, J. C.
Alexander, Verlin
Ault, Dr. L. E.
Ayers, Howard
Bailey, Walden
Black, C. L.
Cline, Mrs. J. S.
Cole, Earl
Cole, Howard
Cole, P. E.
Cole, R. A.
Cole, Roy
Colson, Lester
Cortner, C. V.

Davis, C. M.
Davis, Vaden
Dick, Mrs. Zu
Doud, W. F.
Everson, O. N.
Fair, J. P.
Gildersleeve, Herman
Hawkins, Clifford
Hawkins, Reeve
Howe, George
Huntsinger, Ira
Isaac, W. W.
Jordon, A. W.
Kimbrough, E. E.
Kiser, C. M.
Lagergren, W. E.
Layland, Riley
Loomis, C. F.
McCammon, Charles
McCammon, J. M.
McCarty, J. M.
McGinnis, Ivan
Matousek, Antone
Matousek, John
Minor, Ross
Modlin, Frank
Modlin, G. C.
Moyer, C. E.
Nichols, R. E.
Olson, Ed
Olson, H. E.
Ortman, Guy
Ortman, Roy
Ost, Ernest
Parkhurst, Mrs. Olive
Pate, Olive & Joe
Porter, D. A.
Porter, Mrs. D. A.
Rodgers, J. O.
Sawyer, Bernard
Sawyer, W. G.
Shackelton, E.

Siemon, Everett
Siemon, Gertrude
Silsby, Loren
Staggs, S. C.
Turner, Mrs. L. W.
Tucker, E. H.
Vilott, F. B.

Walker, C.
Walker, Fred
Walker, George
Walker, Russell
White, J. R.
Williams, J. F.
Zadina, Frank

Odessa Township

Bartley, Walter
Clabaugh, H. C.
Dietz, Clarence
Dietz, John
Finch, Ben
Gibeau, J. W.
Grennan, Frank
Griffith, George
Hayes, Fred
Hoffhines, D. L.
Hoffhines, Earl
Hollenbeck, E. P.
Hollenbeck, L. E.
Kennedy, D. E.
Lull, H. A.
McCarty, Frank
McCleery, John
McCleery, M. A.
Merriam, C. B.
Obert, J. F.
Obert, Leo
Obert, Henry
Patton, F. C.
Phillips, John
Phillips, Roy

Postlethwaite, R. C.
Rife, E. E.
Ritter, John
Rogers, H. C.
Rogers, J. J.
Rose, LeRoy
Saltkill, J. M.
Schmidt, Fred
Smith, Mrs. Lena
Snow, Roy
Stites, E. F.
Thomas, George E.
Thomas, Wayne
Warner, G. L.
Yapp, Victor

Ionia Township

Alcorn, C. R.
Alcorn, P. O.
Ault, Ross
Bartlett Mtg. Co.
Blanding, Rev. Fred
Beeler, O. R.
Beeler, O. W.
Berry, P. W.
Bollinger, Charles L.
Brinkwerth, E. A.
Broyles, Lester
Byers, F. E.
Carmickle, T. F.
Collie, W. J.
Collie, Vernon
Colson, Victor
Dietz, Ray
Dunham, Fred
Dunton, Mrs. Edna
Dusenberry, Mrs. O. D.
Ellison, Mrs. Mae C.
Finch, Earl
Finch, Eldon
Frazier, Mrs. Belle

Gimple, Cleo
Granger, Peter
Hathaway, J. A.
Havice, Charles
Hayman, Mrs. Mary
Henningsen, Emit
Henningsen, Mrs. John
Hershner, Dr. C. S.
Holloway, Willis
Iverson, Peter
Lawrence, George
Livers, A. F.
Loomis, C. W.
Loomis, Roy
Loomis, E. C.
Maag, Clarence
Merrill, Mrs. Minnie
Meyer, Fred
Mitchell, W. R.
Nelson, Mrs. Daisie
Nichols, D. J.
Noller, Frank
Noller, Ernest
Oline, Will
Parsons, Leo
Pound, E. F.
Ransom, E. E.
Rice, Leo
Rose, C. B.
Rose, Ivan
Sample, Linden
Sample, V. E.
Schmardebeck, J. F.
Sanders, R. G.
Schmidt, Albert
Simpson, Lester
Sloan, Wiley
Sorrell, Glen
Stansbury, J. C.
Stites, George
Schmidt, Herman
Thomas, Charles

Tucker, Ed
Turner, R. W.
Van Wey, Fred
Van Wey, Whit
Welstead, S. A.
Wilson, John
Wilson, Rollo
Workman, C. B.
Wright, H. E.

Glen Elder Township
Mitchell Co.

Brokaw, J. J.
Dudley, F. L.
Fisher, Mrs. Mary
Graff, A.
Koons, J. H.
Lowdermilk, Lloyd
Moxter, W. M.
Scholl, George
Shaffer, E. J.
Shull, J. J.
Timbers, D. A.
Winn, James

Athens Township

Alcorn, W. C.
Applebee, Otis
Ault, Turner
Beeler, John B.
Beeler, Joe
Birdsell, O. C.
Birdsell, R. O.
Boyer, A. T.
Boyer, J. M.
Byers, Walter
Calder, J. S.
Christenson, L.
Colson, H. E.
Dean, Dan

Dickson, Art
Dietz, Walter
Divel, John
Fenner, F. C.
Fenner, Mrs. Lissie
Finley, Harold
Folsom, G. H.
Gants, Dr. Monte
Garber, E. C.
Gilmore, John
Gish, Heber
Gish, M. E.
Gish, R. E.
Goddling, Mrs. U. S.
Hahn, Ella May
Hoag, W. S.
Hoffhines, Fred
Jaske, Frank
Jettner, Frank
Johnson, Harry
Kennedy, H. J.
Kent, E. J.
Knight, John
Knight, J. A.
Kruse, Charles
Kuiken, Thomas
LaRocque, P. O.
Lee, C. H.
Lodwick, Mrs. Dora
Loomis, Mannie
McCarthy, D. M.
McCarthy, W. A.
McClure, F. A.
McDill, Will
McFarland, H. E.
Margreiter, Charles
Marietta, Bertha
Marietta, Glen
Miles, Meyer
Muck, J. A.
Olson, W. M.
Peters, G. F.

Poppen, Dr. J. A.
Porter, P. C.
Rannebeck, Ben
Rannebeck, Geo.
Rose, Morris
Rose, Mrs. Sylvia
Shelton, M.
Shoemaker, J. E.
Slate, Cal
Smith, Grover
Slattery, Ed
Sorrell, Corwin
Sorrell, J. N.
Sorrell, Rollo
Stevens, E. J.
Van Wey, Albert
Van Wey, C. E.
Welstead, Roy
Wherry, John L.
White, W. B.
Wier, H. K.
Wilkes, L. A.

Erving Township

Cook, A. E.
Deters, J. H.
Dietz, F. G.
Kuiken, Fred
LaRue, J. E.
Wierenga, Joe
Wierenga, Ralph

Center Township

Beam, John
Crouch, Roy
Fulton, W. P.
Green, J. E.
Green, Wesley
Haggart, Roy
Hodgell, Ray D.
Huntington, David
Murfhey, W. H.
Parsons, Jess
Severson, Oscar
Vandeventer, G. L.
White, Evart
White, Ira L.

Calvin Township

First National Bank, Jewell
Gimple, Everett

SOIL EROSION STAFF

REGIONAL DIRECTOR

Dr. F.L. Duley

Agronomists

W.S. Speer
E.H. Aicher

R.P. Ramsey
E.T. Harden

Engineers

John S. Glass
C.C. Martin
C.A. Logan
E.A. Taylor
D.A. Bly

E.A. Cole
P.R. Hoff
R.N. Selby
A.J. McCleery
Harry Schmitt

Water Investigations

H.S. Peters

A.E. Mortenson

Soil Survey

Gordon B. Killinger

Calvin Dornberger

Chief Clerk

Robert S. Hughes

Clerks

Ralph O. Dundas

Camp Superintendents

V.B. Fredenhagen
Robert P. Brooker
Dewar F. Kyle

Burr Oak
Lebanon
Ionia

Stenographers

Delia Joerg
Ella Headley

Evelyn Martin
Arlene Henninger

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

1900-1901

NAME	AGE	SEX	RELATION
JOHN D. BROWN	21	M	Son
MARY E. WHITE	19	F	Daughter

ADMISSIONS

NAME	AGE	SEX	RELATION
JOHN D. BROWN	21	M	Son
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